



more PATENT application of: C.P.Wong

Serial No: 09/671,963

Filed: September 27, 2000

Examiner: Sellers, Robert E.

Group No.: 1721

Docket No.: 820701-1050 (GTRC40)

Title: **Electrically Conductive Adhesives Having Superior-Impact Performance**

**AMENDMENT TRANSMITTAL LETTER**

**Commissioner For Patents**  
Box: Non-Fee Amendment  
Washington, D.C. 20231

Sir:

Transmitted herewith is an amendment in the above-identified application.

Response/Amendment  
Fee as Calculated Below  
No additional fee is required.  
Small Entity status has been  
established.

Terminal Disclaimer  
Corrected Drawings  
Other:

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| <b>CLAIMS AS AMENDED FOR SMALL ENTITY</b>      |                           |                           |       |           |                   |
|--|---------------------------|---------------------------|-------|-----------|-------------------|
|  | Claims After<br>Amendment | Highest Prev.<br>Paid For | Extra | Rate      | Additional<br>Fee |
| Total<br>Claims                                |                           | -                         |       | x \$9.00  | = \$              |
| Independent<br>Claims                          |                           | -                         |       | x \$42.00 | = \$              |
| <b>Total Additional Fee for this Amendment</b> |                           |                           |       |           | <b>= \$0</b>      |

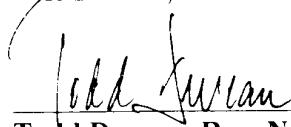
  

A check in the amount of \$ is enclosed.  
A Credit Card Payment Form PTO-2038 is attached in the amount of \$.  
The Commissioner is hereby authorized to charge to our Deposit Account No. the  
amount of \$ for the fee identified above. A duplicate of this Amendment Transmittal  
Letter is included herewith.  
 The Commissioner is authorized to charge any insufficiencies, and the  
Commissioner is hereby requested to credit any overpayments to our Deposit Account No.  
20-0778.

Customer No.: 24504

**THOMAS, KAYDEN, HORSTEMEYER**

**& RISLEY, L.L.P.**

  
**Todd Deveau, Reg. No. 29,526**  
Attorney for Applicant(s)

Date: March 26, 2003



## CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as first class mail in an envelope addressed to:

Assistant Commissioner for Patents  
Box: Non-Fee Amendment  
Washington, D.C. 20231

on 3/26/03.

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GROUP 1700

Laurie Delesandro  
Laurie Delesandro

In re application of: C.P.Wong

Group No.: 1721

Serial Number: 09/671,963

Examiner: Sellers, Robert E.

Filing Date: September 27, 2000

Title: **Electrically Conductive Adhesives Having Superior-Impact Performance**

Attached are the following documents for filing with the USPTO:

Postcard  
Amendment Transmittal Form (1 Page)  
Response and Election



Docket No.: 820701-1050 (GTRC40)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In Re Application of: )  
C.P. Wong )  
Serial No.: 09/671,963 ) Group Art Unit: 1721  
Filed: September 27, 2000 ) Examiner: Sellers, Robert E.  
For: ELECTRICALLY CONDUCTIVE )  
ADHESIVES HAVING SUPERIOR- )  
IMPACT PERFORMANCE )

**RESPONSE AND ELECTION**

BOX: NON-FEE AMENDMENT  
Commissioner for Patents  
Washington, D.C. 20231

Atlanta, Georgia 30308-2216  
March 25, 2003

Sir,

The Office Action (Paper No. 20) from Patent Examiner Sellers mailed on February 26, 2003, has been received and reviewed. Applicant provides the following remarks in response.

**REMARKS**

By the Office Action mailed on February 26, 2003, the Examiner states Claims 6, 8, 10-18 and 21-32 are pending in the application. The Examiner has determined the Claims comprise six (6) separate groups of inventions and has required an election for prosecution.

Group I contains Claims 6 and 8 drawn to an adhesive comprising an epoxide-modified polyurethane, a crosslinking agent, an adhesion promotor and a conductive filler, classified in class 523, subclass 459; Group II contains Claims 10-14 drawn to the

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GROUP 1700

adhesive further comprising an epoxy resin, catalyst and/or diluent, classified in class 523, subclass 428; Group III contains Claims 15, 16, 18, 30, and 31 drawn to a method of joining electrically conductive materials with an adhesive comprising an epoxide-modified polyurethane, a crosslinking agent, an adhesion promotor and a conductive filler, classified in class 156, subclass 330; Group IV contains Claims 17 and 32, drawn to the method further comprising an epoxy resin, catalyst and/or diluent, classified in class 156, subclass 331.1; Group V contains Claims 21-28 drawn to a circuit board, classified in class 428, subclass 620; and Group VI contains Claim 29 drawn to the circuit board further comprising an epoxy resin, catalyst and/or diluent, classified in class 428, subclass 626.

### **I. IN THE CLAIMS**

Please cancel Claims 6, 8 and 10-14, as they depend back to Claim 1, which was canceled by the Amendment and Response dated January 13, 2003.

### **II. RESTRICTION ELECTION**

Applicant elects Group III containing Claims 15, 16, 18, 30 and 31 with traverse. Applicant submits that the Group IV Claims, namely Claims 17 and 32, should be examined along with the Group III Claims. Claim 17 is dependent upon the Group III Claim 16, and Claim 32 is dependent upon the Group III Claim 31. Thus, should the Group III Claims 16 and 31 be found patentable, then the Group IV Claims 17 and 32 would likewise be patentable. This would be true regardless of whether the Group IV Claims are obvious or not obvious variants of the subject matter of the Group III Claims and regardless of whether or not the addition of the compounds of the Group IV Claims materially affects the properties of the adhesive of the Group III Claims.

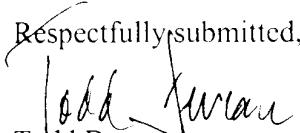
### III. ELECTION OF SPECIES

In response to the further requirement for election of species, Applicant elects the following:

- 1) (epoxide modified polyurethane)  
the reaction product between diphenylmethane diisocyanate, polyTBF 2000 having the chemical formula HO[(CH<sub>2</sub>)<sub>4</sub>O]<sub>n</sub>H, and glycerol diglycidyl ether;
- 2) (crosslinking agent)  
methylhexahydrophthalic anhydride;
- 3) (adhesion promoter)  
SILQUEST A-187 (also known as (3-Glycidoxypropyl)trimethoxysilane));  
and
- 4) (conductive filler)  
silver flakes.
- 5) (epoxy resins, catalysts and/or diluents)  
bisphenol F epoxy resin; imidazoles as catalysts, such as 2-ethyl-4-methylimidazole; and glycidyl ethers as diluents

It is believed that all of the Claims of Groups III and IV read on this election of species.

Applicant believes no fee is required with this Response; however, if the Examiner determines a fee is required, the Commissioner is authorized to charge any requisite fee to Deposit Account No. 20-0778.

Respectfully submitted,  
  
Todd Deveau

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